# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 12/17/2018 11:26 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 10/31/2018 01:04 PM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 72756 | Expiration Date: | 10/31/2019 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124257 | -1 | 2.15 | 124276 | 2.15 |
| Blue | F | SSC | 125000 | 123539 | -2 | 3.91 | 124311 | 3.94 |
| Blue | E | FITC | 15492 | 15012 | -4 | 3.80 | 348 | 21.54 |
| Blue | D | PE | 28736 | 27898 | -3 | 3.14 | 615 | 16.12 |
| Blue | B | PerCP-Cy5-5 | 41413 | 41237 | -1 | 4.58 | 1127 | 22.10 |
| Blue | A | PE-Cy7 | 31321 | 31480 | 0 | 7.08 | 568 | 46.96 |
| Red | C | APC | 41673 | 40648 | -3 | 3.06 | 1570 | 13.75 |
| Red | A | APC-Cy7 | 29962 | 29310 | -3 | 2.99 | 734 | 13.97 |
| Violet | B | V450 | 8318 | 7819 | -6 | 4.57 | 435 | 14.44 |
| Violet | A | V500 | 34199 | 33329 | -3 | 4.24 | 804 | 11.21 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 20258 | 3.65 | 603 | -10 | N/A | N/A | Pass |
| Blue | F | SSC | 55949 | 3.41 | 572 | 4 | N/A | N/A | Pass |
| Blue | E | FITC | 58 | 72.23 | 554 | -7 | 0.0164 | 149 | Pass |
| Blue | D | PE | 123 | 57.16 | 553 | -7 | 0.1417 | 318 | Pass |
| Blue | B | PerCP-Cy5-5 | 212 | 54.95 | 660 | -7 | 0.0082 | 106 | Pass |
| Blue | A | PE-Cy7 | 111 | 116.63 | 715 | -7 | 0.0094 | 24 | Pass |
| Red | C | APC | 360 | 28.95 | 603 | 2 | 0.0179 | 90 | Pass |
| Red | A | APC-Cy7 | 182 | 31.63 | 578 | 2 | 0.0047 | 1162 | Pass |
| Violet | B | V450 | 64 | 71.48 | 469 | -8 | 0.0482 | 2675 | Pass |
| Violet | A | V500 | 114 | 37.07 | 488 | -6 | 0.0193 | 789 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 12/17/2018 11:26 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.98 - 71.98 | N/A | N/A | -32.79 | -32.51 | 1.15 |
| Blue | 20.35 | 16.27 - 24.41 | 1.25 | 0.99 - 1.49 | 0.00 | 0.00 | 1.49 |
| Red | 16.74 | 13.60 - 20.40 | N/A | N/A | 29.81 | 30.11 | 1.21 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.91

## Threshold

Threshold (FSC): 9685

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.60
Spec.: 3.80 - 4.00

Comments